

Do my idea can be implemented?

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Hi all,

I want encrypt whole disk by PCI crypto-card, it's not a partition encryption but WHOLE DISK, so the system partition of OS will be encrypted.

To implement this idea, I will:

- (1) Drive my PCI crypto-card before the system booting (so called pre-os driver);
- (2) Hook my int13 filter to BIOS, which will do the decryption use my PCI crypto-card;
- (3) Implement a PCI driver for NT, which will drive my PCI crypto-card after the system starting up;
- (4) Implement a disk filter driver for NT, which will implement the read and write of disk sectors in secure mode (encryption and decryption);

My problem is: When the system starting up, the driver of disk and PCI crypto-card will be loaded,

- (1) If the PCI crypto-card driver will be loaded first, can INT13 filter call the PCI pre-os 'driver' after it is loaded? If not, the gaps is system can't read encrypted sectors any more!
- (2) If the disk filter driver will be loaded first, the INT13 filter will be pased, any read and write of the disk sectors will be processed by the driver, but at this time, the PCI driver not loaded, can I call the "pre-os driver funtion" to do crypto?

Is there any suggestion ?

Thanks and best regards

Robin 04/08